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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,944	05/13/2005	Peter Heinrich	HM-623PCT 1703	
	40570 7590 12/28/2007 FRIEDRICH KUEFFNER		EXAMINER	
317 MADISON AVENUE, SUITE 910 NEW YORK, NY 10017			KASTLER, SCOTT R	
			ART UNIT	PAPER NUMBER
			1793	
				<u> </u>
			MAIL DATE	DELIVERY MODE
		•	12/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/534,944	HEINRICH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Scott Kastler	1793				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 7 is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examinet 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correction in the oreal control of the correction is objected to by the Examinet of the oreal control of the o	r election requirement. r. epted or b) □ objected to by the today drawing(s) be held in abeyance. Section is required if the drawing(s) is objected to be the today	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ■ All b) ■ Some * c) ■ None of: 1. ■ Certified copies of the priority documents have been received. 2. ■ Certified copies of the priority documents have been received in Application No. ■ 3. ■ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/13/2005	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

Claim Objections

Claim 2 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The above claims is not properly further limiting upon independent apparatus claim 1 because this claim recites only a limitation dealing with the manner of use of the claimed apparatus (the frequency of interruption of the gas supply) and it has been well settled that the manner or method of use of the claimed apparatus and cannot be relied upon to fairly further limit claims to the apparatus itself. See MPEP 2114 and 2115.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by European Patent Application 0045658 (EP'658). EP'658 teaches an arrangement in a gas supply system for a tuyere in a metallurgical furnace, as shown in the embodiment of figure 1 for example, which an be employed for a plurality of tuyeres, where the gas flow is reduced or interrupted to some extent through the use of transducers (4) thereby showing all aspects of the above claims since the use of the device for reducing the gas supply by any particular value at any particular frequency are limitations dealing with the manner or method of use of the claimed apparatus and cannot be relied upon to fairly further limit claims to the apparatus itself. See MPEP 2114 and 2115.

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Allowable Subject Matter

Claim 7 is allowed at least because none of the cited or applied prior art shows or fairly suggest the high frequency periodic pulsing of the gas supply.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kuppel et al is also cited as a further example of prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/534,944

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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